

Attorney:
RND/MKG
Draftsman:
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Application:
System, Method And
Article Of
Manufacture To
Determine And
Communicate
Optical Lens Sizing
And Prescription
Information

Client:
Tom Yancy

File Number:
TOM995/99795

Sheet Number:
of

Date:
11/23/99

Revision:
3

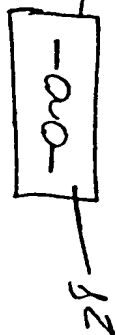
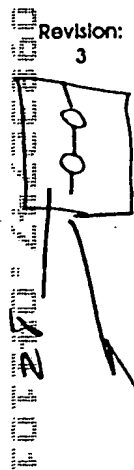
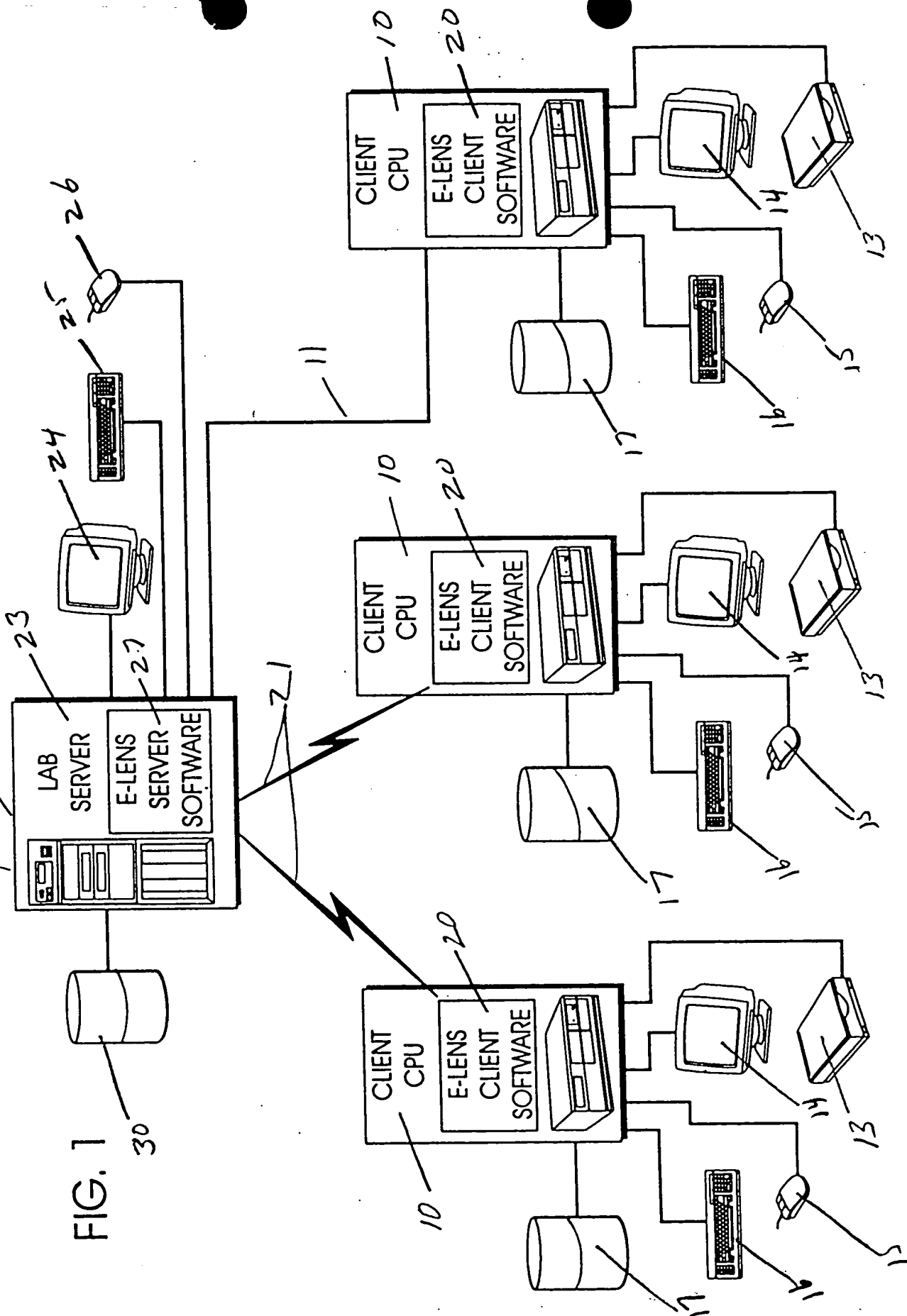


FIG. 1





33

-30

36

32

Tray _____ Date _____

Notes

31

e.lens
Electronic Lens Processing

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FIGURE 3

Determining Scanned Image First Axis Centerpoint of Reference

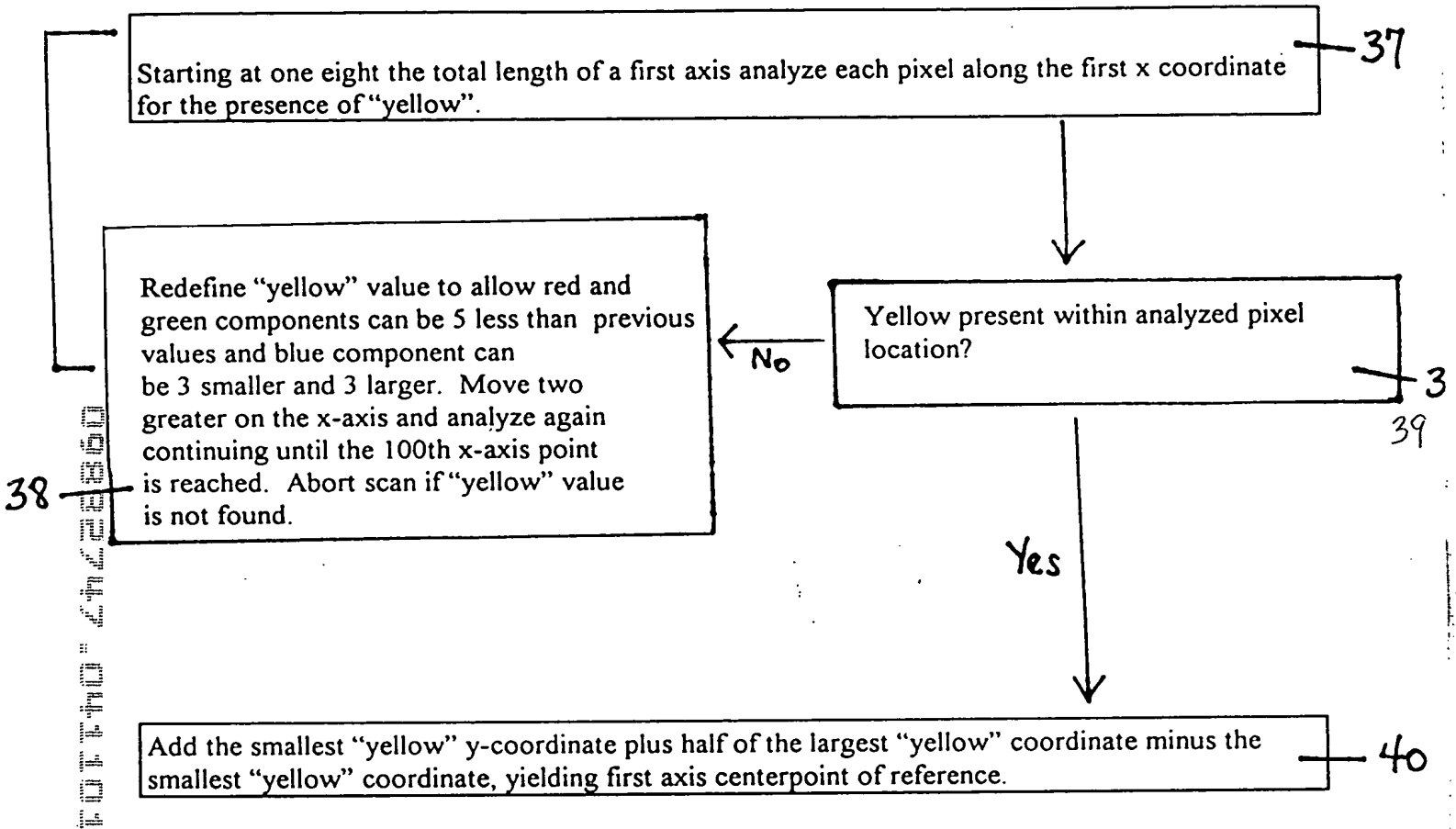


FIGURE 4

Determining Scanned Image Second Axis Centerpoint of Reference

Starting at one eighth the total length of a second axis, start analyze each pixel along the first y coordinate for the presence of "yellow".

42

Redefine "yellow" red and green components can be 5 less than previous values and blue component can be 3 smaller and 3 larger. Move two greater on the y-axis and analyze again, continuing until the 100th y-axis point is reached. Abort scan if "yellow" value is not found.

No

Where any "yellow" points found? "Yellow" present within analyzed pixel location?

46

Yes

Add the smallest x-coordinate that as "yellow" plus half of the largest "yellow" coordinate minus the smallest "yellow" coordinate, yielding second axis centerpoint of reference.

48

44
"T.O.T.H.O." 4422300

FIGURE 5

Determining a Starting Radius

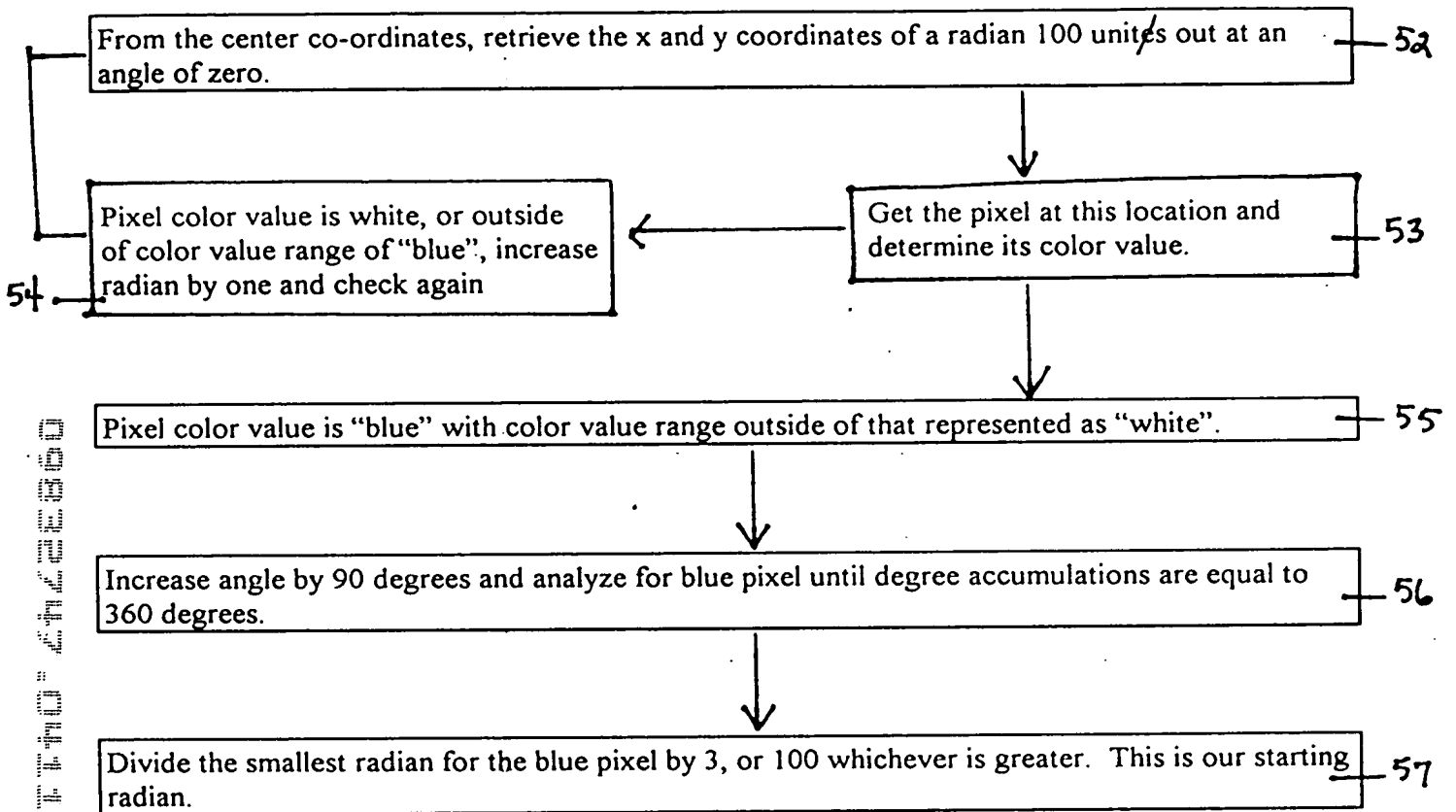


FIGURE 6

Centering a Scanned Image Shape

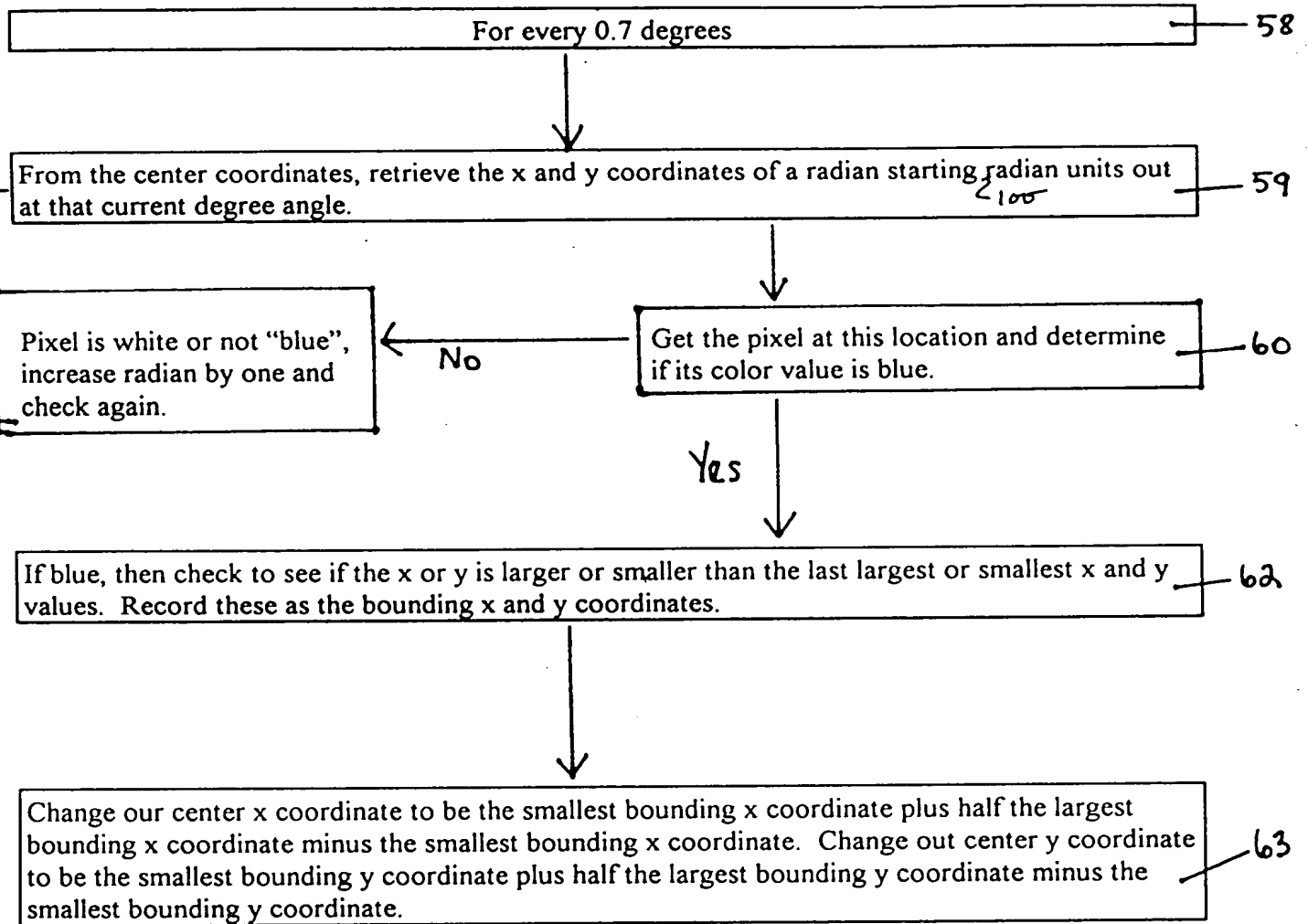


FIGURE 7

Determining a Scanned Image Radial Shape

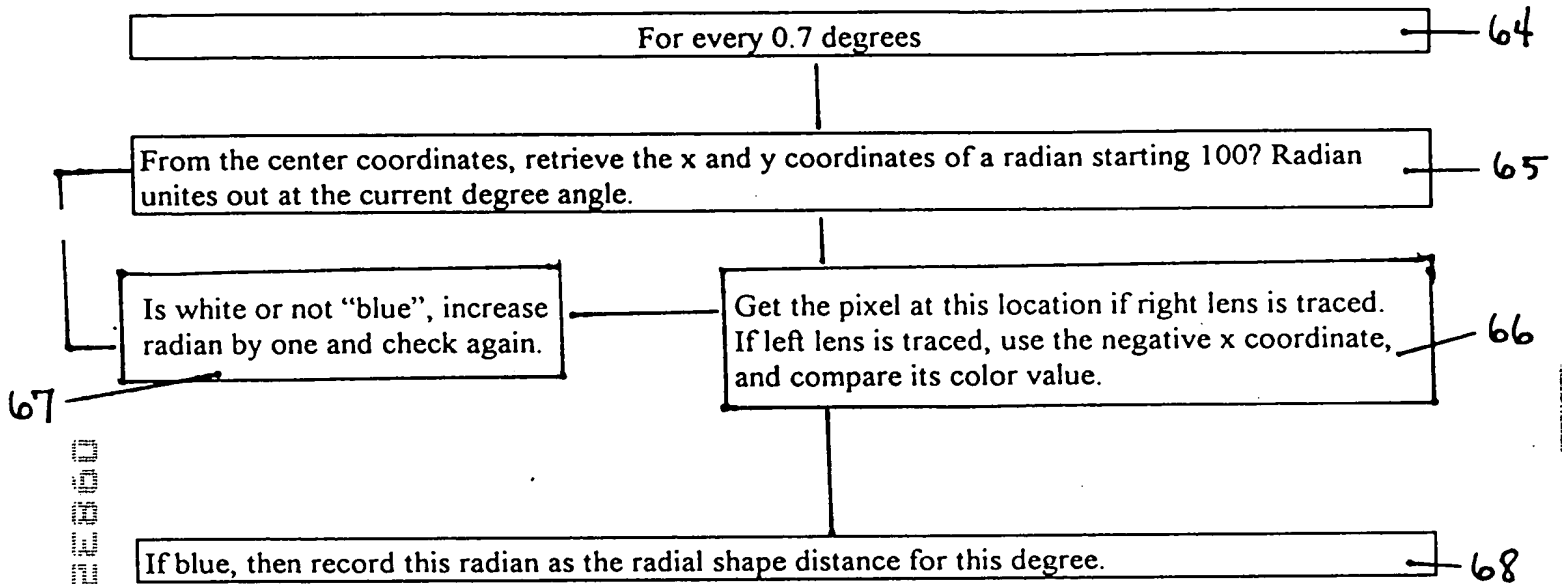


FIGURE 8

Determining a Scanned Image Radial Size

For every 0.7 degrees

72

For the radial shape distance for this degree, subtract the figure provided by calibration. This reduction eliminates the extra size that the pen creates.

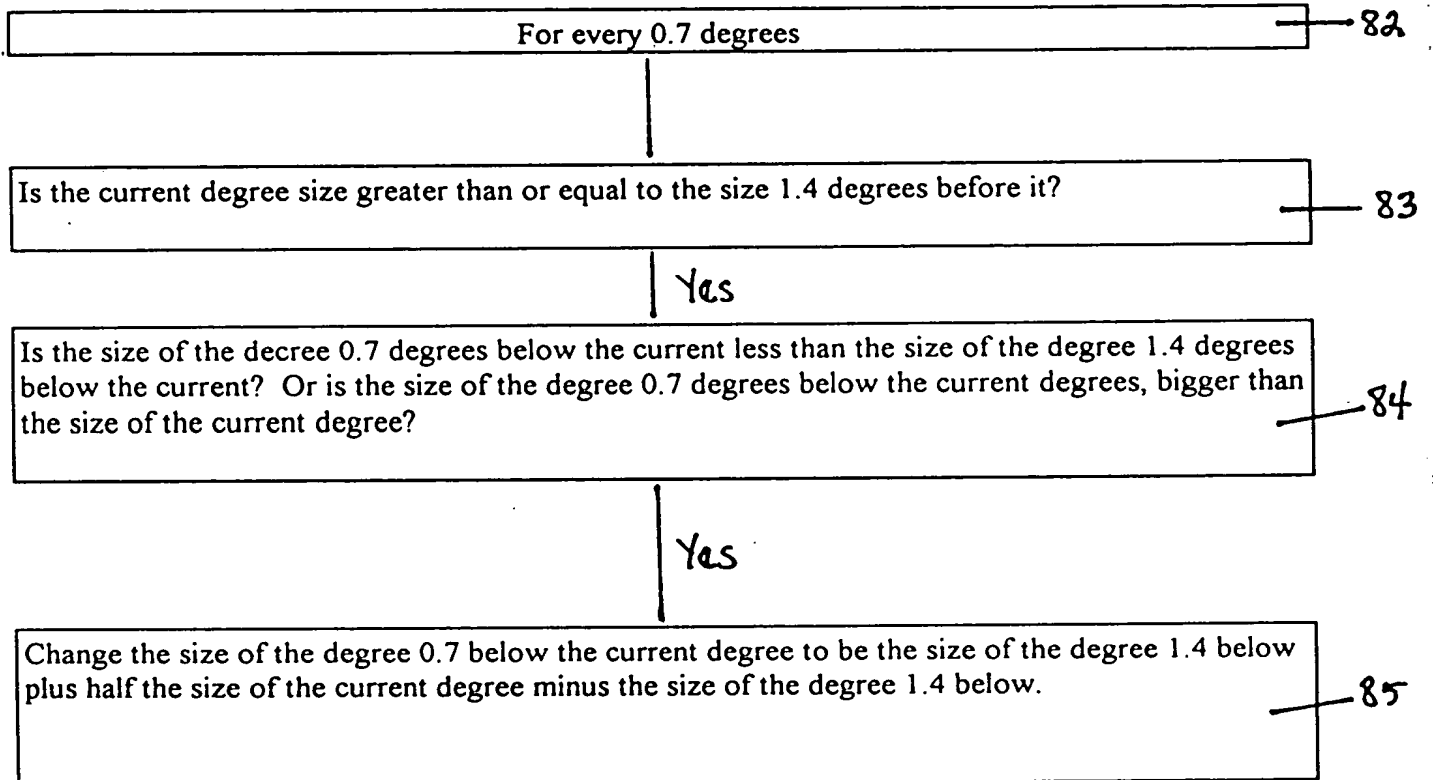
Divide each radian by the configurable DPI setting of the scanner, example 400, this is our conversion to inches.

73

Convert inches to millimeters by dividing by 0.039370. Then multiply by 100. This gives each radian in mm*100.

TOP SECRET

Smoothing a Scanned Image Radial Shape



Doc **Dr.**

FIGURE 10

Modify Size of Derived Radial Shape

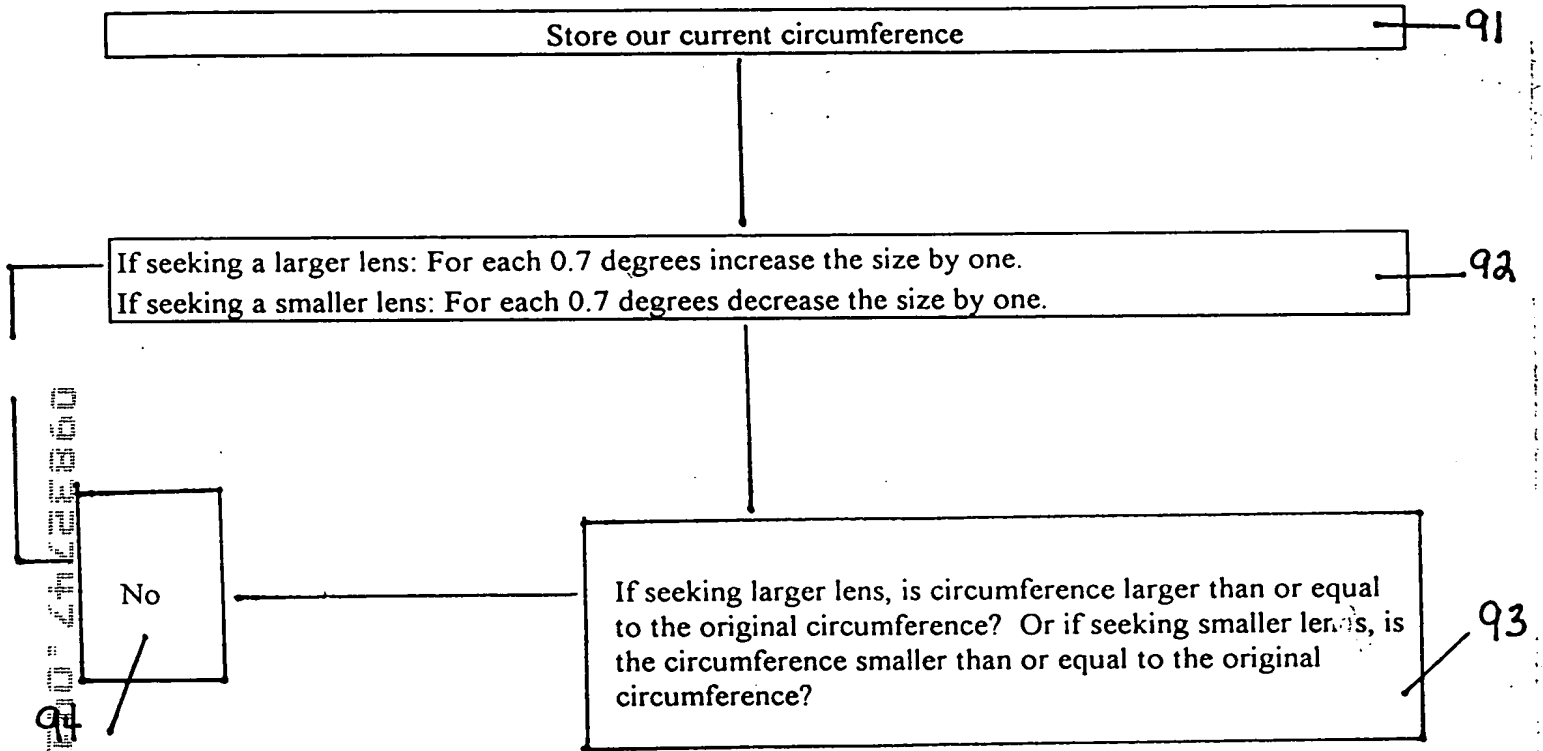
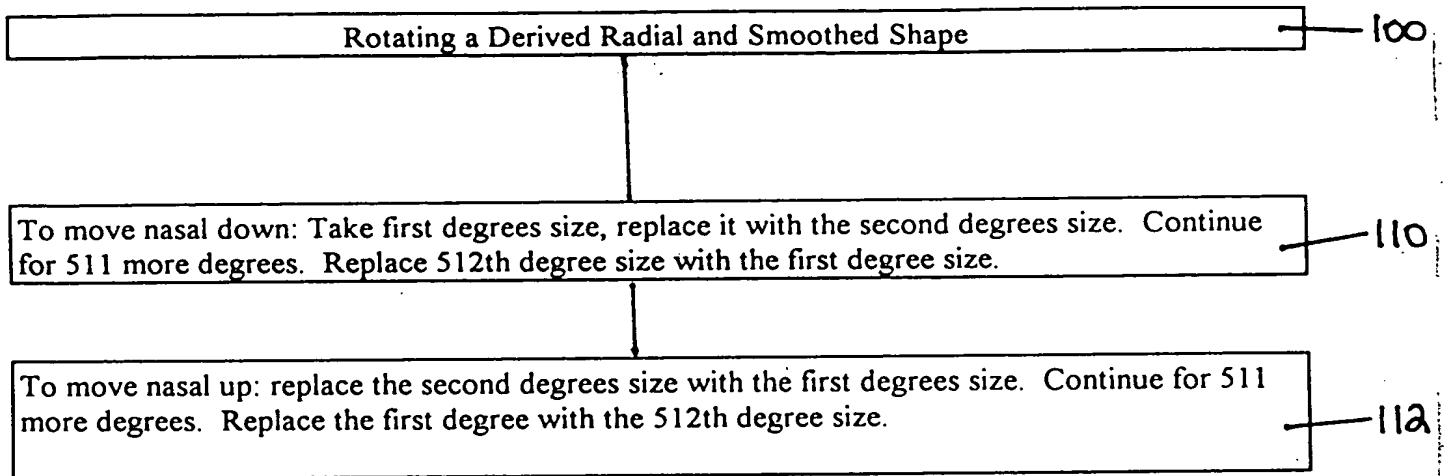


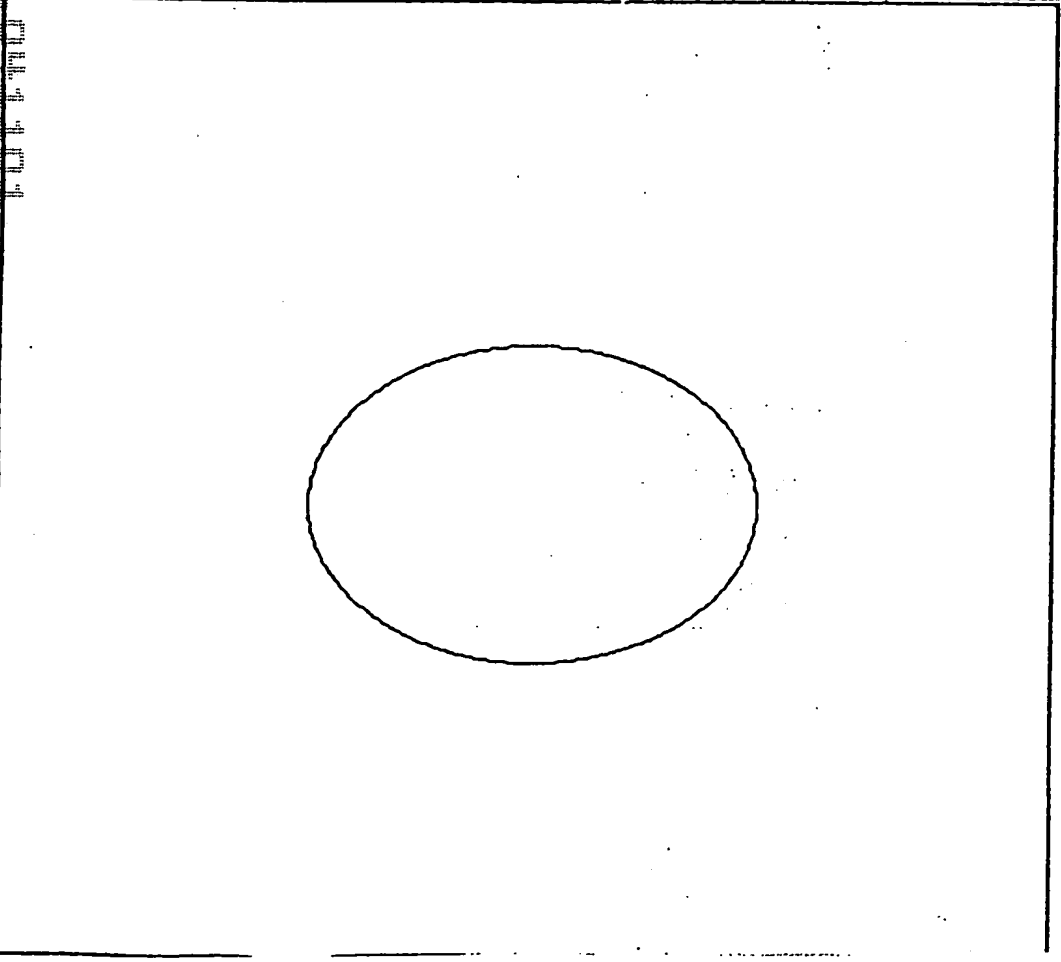
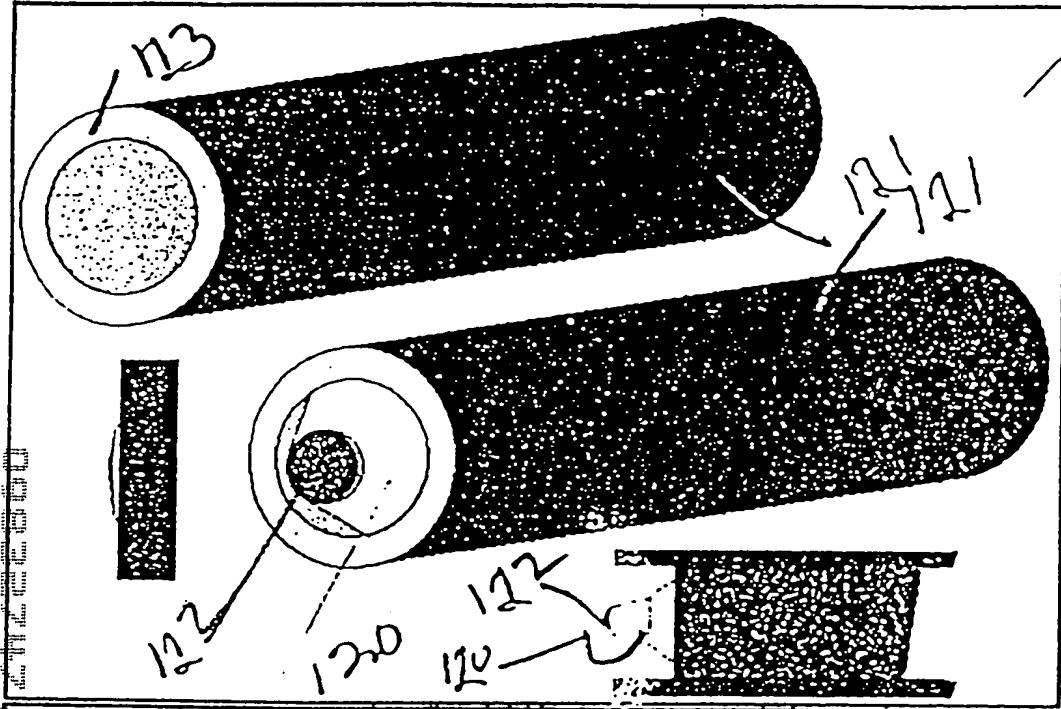
FIGURE 11



00000-4444-1000

Fig 12/11

Description
 Pen
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Place trial le
 paper.

New Edit Print Send Delete		Config E-Mail Remind Help About Exit	
Please perform calibration now		1999-11 November	
		<Current Orderlist -- Orders not yet sent>	
		Berenson, John	
		Fullerton, Cindy	
		Hardin, Larry	
		Hill, Craig	
		McCown, George	
Frame Name: John V00 Manufacturer: DBL 170S200GR15276 Frame Color: AS816366ED159			
Frame Name: [blank] Manufacturer: [blank] Frame Color: [blank] Eye Size: 00 Supplier: Lenses only		Shape: [blank] Model: [blank] Type: Metal Temple: 00	
Material: [blank] Lens: [blank] Tint: [blank]		Type: [blank] Color: [blank]	

Figure 13

① MAIN SCREEN

e.lens Order(Specialty Optical Services)

Patient Name: Smith, Mary Stray ☐ Bob ☐ Amy ☐ Lee

☒ Lenses only ☐ Uncut ☐ Lab supplied ☐ To come ☐ Other

Frame Name: Shawna Shape:
 Manufacturer: Kenmark Model: 511
 Frame Color: Demi Type: Metal
 Eye Size: 57 DBL: 19.00 Temple: 0.00

Material: 01 CR-39 Type: 02 Bifocal
 Lens: 02 FT 28 Color: 01 Transitions III G
 Lab Tint: Type:

0 DBL 19.0 Circ 127.77
A:42.9 B:34.8 E.D:45.5
0.00 Fine Tune Size/Axis

Sph		Cyl		Axis		A B C		H I J		K L		M N		O P	
R	-0.25		+0.00		180		+1.00		+0.00		+30.00		+28.50		+0.00
L	-0.50		-1.00		080		+1.00		+0.00		+30.00		+28.50		+0.00

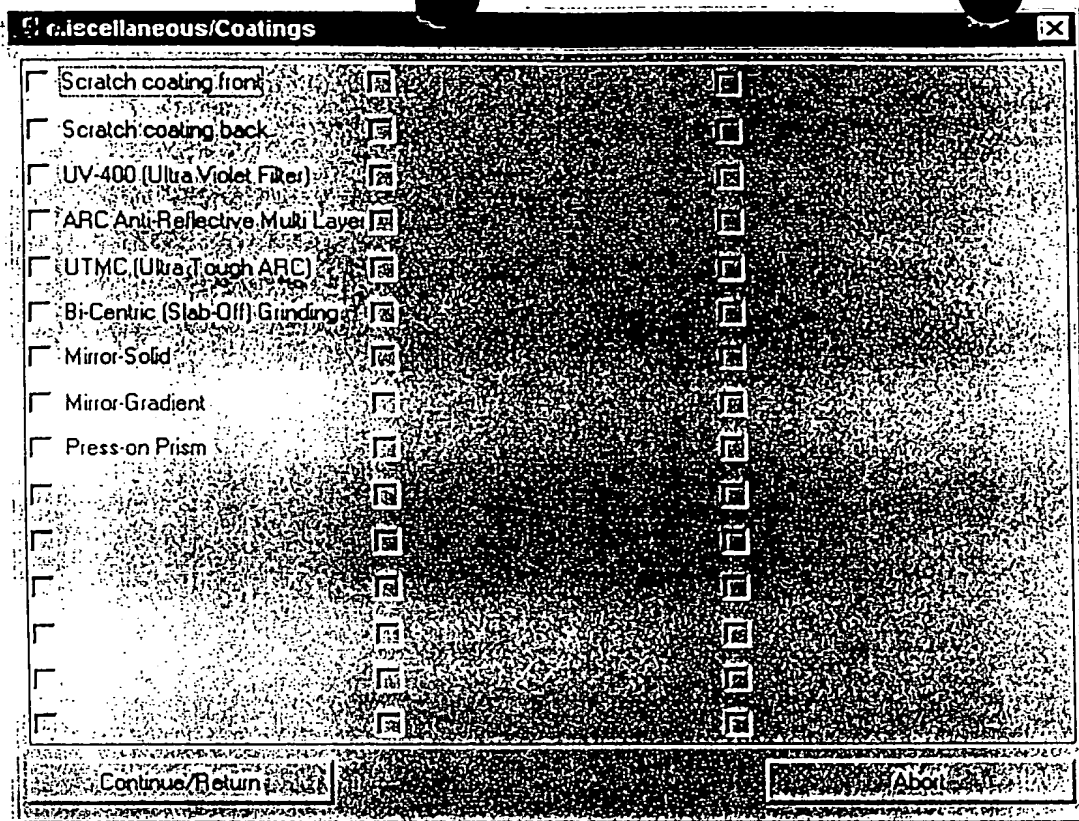
Seg Height		Horiz Prism		Vert Prism	
R	+25.00 High	+0.00		+0.00	
L	+25.00 High	+0.00		+0.00	

Comment: We need this order ASAP

Grind: Thin
 Edge: 02 Polish Edg
☒ Print/Shipping

Save Misc/Coatings Advanced Add Patient Info About

Figure 14



③ Misc screen

Figure 15

e.lens Order(Specialty Optical Services)

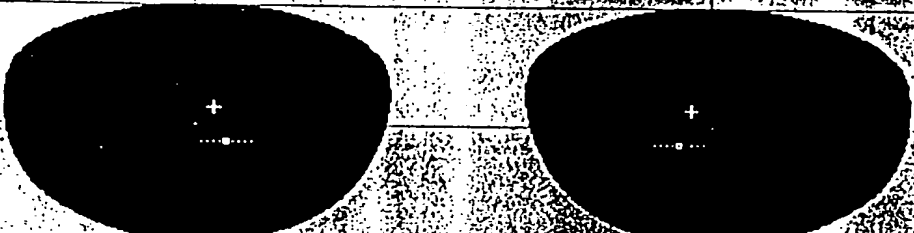
		
Opt Cen R • 16.41 L • 16.41 Geo Cen • 16.41 Seg H R • 14.00 L • 14.00	DBL 17.0 Circ 131.09 A 48.7 B 32.8 E.D. 46.3	+ • Optical center • • Geometric center • • Seg height
<input type="button" value="Nasal Up"/> <input type="button" value="Nasal Down"/>	Rotation: 0 Size: 0	<input type="button" value="Increase Size"/> <input type="button" value="Decrease Size"/>
DBL <input type="text" value="17.00"/>	FPD R <input type="text" value="+30.00"/> L <input type="text" value="+30.00"/>	NPD R <input type="text" value="+28.50"/> L <input type="text" value="+28.50"/>
<input type="button" value="Return with Modifications"/>		<input type="button" value="Abort"/>

Figure 16